THE COMPLETE WEB DEVELOPMENT COURSE
STEP BY STEP WITH NO STEP SKIPPED
MySQL
INTRODUCTION
DEVELOPMENT ISLAND
help@completewebdevelopmentcourse.co.uk

THE COMPLETE WEB DEVELOPMENT COURSE
STEP BY STEP WITH NO STEP SKIPPED
MySQL
CREATE A DATABASE USING PHP MYADMIN
DEVELOPMENT ISLAND
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```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible"
content="IE=edge">
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>introduction</title>
```

```
        <link href="css/bootstrap.min.css"
rel="stylesheet">
        <style>
            h1{
                color:purple;
            }
            h3{
                color:#42d5ce;
            }
            .containingDiv{
                border:1px solid #7c73f6;
                margin-top: 100px;
                border-radius: 15px;
            }
        </style>

    </head>
        <body>
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-offset-1 col-sm-10
containingDiv">
            <h1>Connect to database:</h1>
<?php
//mysqli_connect(host, username, password, dbname)
//$link = @mysqli_connect("mysql11.000webhost.com",
"a7099072_user", "Hellodevelopers1", "a7099072_db") or
die("ERROR: Unable to connect: " .
mysqli_connect_error());
//var_dump($link);
//
//
//echo "<p>Connected successfully to the database.</p>";


//connect
$link = new mysqli("mysql11.000webhost.com",
"a7099072_user", "Hellodevelopers1", "a7099072_db"); //
your host should be local if you are using my free web
hosting
//check connection
```

```
if($link->connect_errno > 0){
    die("Unable to connect: " . $link->connect_error);
}

echo "<p>Connected successfully to the database.</p>";
?>
        </div>
    </div>
</div>
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/j
query.min.js"></script>
        <script src="js/bootstrap.min.js"></script>
        </body>
</html>
```

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        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Create database</title>
        <link href="css/bootstrap.min.css"
rel="stylesheet">
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                margin-top: 100px;
                border-radius: 15px;
            }
        </style>

    </head>
```

```
        <body>
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-offset-1 col-sm-10
containingDiv">
            <h1>Create database:</h1>
            <h3>Connect to server</h3>
<?php
//mysqli_connect(host, username, password, dbname)
$link = @mysqli_connect("mysql11.000webhost.com",
"a7099072_user", "Hellodevelopers1") or die("ERROR: Unable
to connect: " . mysqli_connect_error());
var_dump($link);


echo "<p>Connected successfully to the server.</p>";
?>
            <h3>Create a database</h3>
<?php
$sql = "CREATE DATABASE store";
if(mysqli_query($link, $sql)){
    echo "<p>Database store was created successfully</p>";
}else{
    echo "ERROR: Unable to execute $sql" .
mysqli_error($link);
}

?>
        </div>
    </div>
</div>
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/j
query.min.js"></script>
        <script src="js/bootstrap.min.js"></script>
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        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Add a table to database</title>
        <link href="css/bootstrap.min.css"
rel="stylesheet">
        <style>
            h1{
                color:purple;
            }
            h3{
                color:#42d5ce;
            }
            .containingDiv{
                border:1px solid #7c73f6;
                margin-top: 100px;
                border-radius: 15px;
            }
        </style>

    </head>
```

```
        <body>
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-offset-1 col-sm-10
containingDiv">
            <h1>Add a table to database:</h1>
            <h3>Connect to database</h3>
<?php
//mysqli_connect(host, username, password, dbname)
$link = @mysqli_connect("mysql11.000webhost.com",
"a7099072_user", "Hellodevelopers1", "a7099072_db") or
die("ERROR: Unable to connect: " .
mysqli_connect_error());

echo "<p>Connected successfully to the database.</p>";
?>
            <h3>Create table</h3>
<?php
$sql = "CREATE TABLE users(ID INT(4) NOT NULL PRIMARY KEY
AUTO_INCREMENT, firstname CHAR(20) NOT NULL, lastname
CHAR(20) NOT NULL, email VARCHAR(30), password
VARCHAR(40))";
if(mysqli_query($link, $sql)){
    echo "<p>Table users created successfuly!</p>";
}else{
    echo "ERROR: Unable to execute $sql" .
mysql_error($link);
}
?>

        </div>
    </div>
</div>
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/j
query.min.js"></script>
        <script src="js/bootstrap.min.js"></script>
        </body>
</html>
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<html lang="en">
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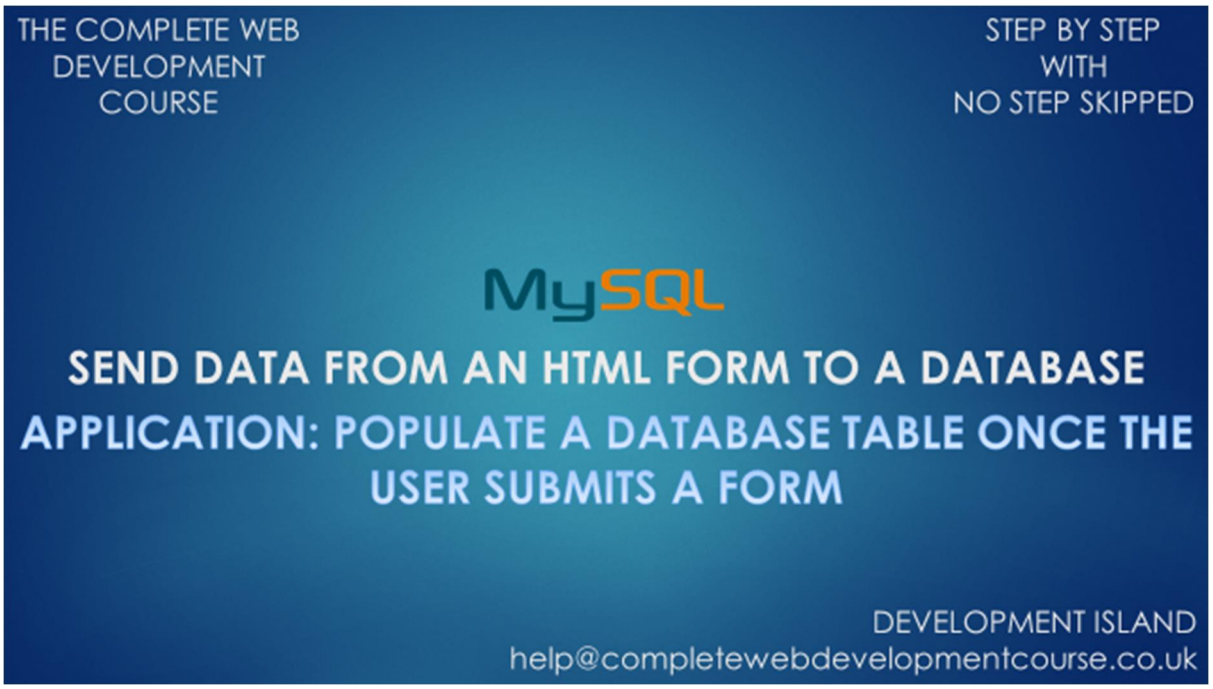
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible"
content="IE=edge">
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Populate table</title>
        <link href="css/bootstrap.min.css"
rel="stylesheet">
        <style>
            h1{
                color:purple;
            }
            h3{
                color:#42d5ce;
            }
            .containingDiv{
                border:1px solid #7c73f6;
                margin-top: 100px;
                border-radius: 15px;
            }
        </style>

    </head>
```

```
        <body>
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-offset-1 col-sm-10
containingDiv">
            <h1>Add a table to database:</h1>
            <h3>Connect to database</h3>
<?php
//mysqli_connect(host, username, password, dbname)
$link = @mysqli_connect("mysql11.000webhost.com",
"a7099072_user", "Hellodevelopers1", "a7099072_db") or
die("ERROR: Unable to connect: " .
mysqli_connect_error());

echo "<p>Connected successfully to the database.</p>";
?>
            <h3>Populate table</h3>
<?php
$sql = "INSERT INTO users (firstname, lastname, email,
password) VALUES ('Mark', 'Zuckerberg',
'M.zuckerberg@gmail.com', 'password')";
if(mysqli_query($link, $sql)){
    echo "<p>New row added successfully!</p>";
}else{
    echo "ERROR: Unable to execute $sql" .
mysql_error($link);
}
?>

        </div>
    </div>
</div>
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/j
query.min.js"></script>
        <script src="js/bootstrap.min.js"></script>
        </body>
</html>
```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STEP BY STEP WITH NO STEP SKIPPED
MySQL
SEND DATA FROM AN HTML FORM TO A DATABASE
APPLICATION: POPULATE A DATABASE TABLE ONCE THE USER SUBMITS A FORM
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```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible"
content="IE=edge">
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Populate table using form</title>
        <link href="css/bootstrap.min.css"
rel="stylesheet">
        <style>
            h1{
                color:purple;
            }
            h3{
                color:#42d5ce;
            }
            .containingDiv{
                border:1px solid #7c73f6;
                margin-top: 100px;
                border-radius: 15px;
            }
        </style>

    </head>
```

```
        <body>
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-offset-1 col-sm-10
containingDiv">
            <h1>Populate table using form:</h1>
            <h3>Connect to database:</h3>
<?php
//mysqli_connect(host, username, password, dbname)
$link = @mysqli_connect("mysql11.000webhost.com",
"a7099072_user", "Hellodevelopers1", "a7099072_db") or
die("ERROR: Unable to connect: " .
mysqli_connect_error());

echo "<p>Connected successfully to the database.</p>";
?>
            <h3>Send data to database:</h3>
<?php

//get user inputs
$id = $_POST["ID"];
$firstname = $_POST["firstname"];
$lastname = $_POST["lastname"];
$email = $_POST["email"];
$password = $_POST["password"];

//error messages
$missingFirstname = "<p><strong>Please enter your
firstname!</strong></p>";
$missingLastname = "<p><strong>Please enter your
lastname!</strong></p>";
$missingemail = "<p><strong>Please enter your
email!</strong></p>";
$invalidemail = "<p><strong>Please enter a valid email
address!</strong></p>";
$missingPassword = "<p><strong>Please enter a
password!</strong></p>";


if($_POST["submit"]){
 //check for errors
    if(!$firstname){
```

```
        $errors .= $missingFirstname;
    }else{
         $firstname = filter_var($firstname,
FILTER_SANITIZE_STRING);
    }
    if(!$lastname){
        $errors .= $missingLastname;
    }else{
         $lastname = filter_var($lastname,
FILTER_SANITIZE_STRING);
    }
    if(!$email){
        $errors .= $missingemail;
    }else{
         $email = filter_var($email,
FILTER_SANITIZE_EMAIL);
        if(!filter_var($email, FILTER_VALIDATE_EMAIL)){
            $errors .= $invalidemail;
        }
    }
    if(!$password){
        $errors .= $missingPassword;
    }

    if($errors){
        $resultMessage = '<div class="alert alert-
danger">' . $errors .'</div>';
        echo $resultMessage;
    }else{
        //no errors, prepare variables for the query
        $tblname = "users";
        $firstname = mysqli_real_escape_string($link,
$firstname);
        $lastname = mysqli_real_escape_string($link,
$lastname);
        $email = mysqli_real_escape_string($link, $email);
        $password = mysqli_real_escape_string($link,
$password);
        $password = md5($password);

        //execute insert query
        if(!$id){
```

```
            $sql = "INSERT INTO users (firstname,
lastname, email, password) VALUES ('$firstname',
'$lastname', '$email', '$password')";
        }else{
            $sql = "INSERT INTO users (ID, firstname,
lastname, email, password) VALUES ('$id', '$firstname',
'$lastname', '$email', '$password')";
        }
        if(mysqli_query($link, $sql)){
            $resultMessage = '<div class="alert alert-
success">Data added successfully to the database
table</div>';
            echo $resultMessage;
        }else{
            $resultMessage = '<div class="alert alert-
warning">ERROR: Unable to excecute: ' .$sql. '. ' .
mysqli_error($link). '</div>';
            echo $resultMessage;
        }
    }

}

?>
            <form action="5.populatetableusingform.php"
method="post">
                <div class="form-group">
                    <label for="ID">ID:</label>
                    <input type="number" id="ID"
placeholder="ID" class="form-control" name="ID"
maxlength="4">
                </div>
                <div class="form-group">
                    <label
for="firstname">Firstname:</label>
                    <input type="text" id="firstname"
placeholder="Firstname" class="form-control"
name="firstname"  maxlength="20">
                </div>
                <div class="form-group">
                    <label
for="lastname">Lastname:</label>
```

```
                    <input type="text" id="lastname"
placeholder="Lastname" class="form-control"
name="lastname"  maxlength="20">
                </div>
                <div class="form-group">
                    <label for="email">Email:</label>
                    <input type="email" id="email"
placeholder="Email" class="form-control" name="email"
maxlength="30">
                </div>
                <div class="form-group">
                    <label
for="password">Password:</label>
                    <input type="password" id="password"
placeholder="Password" class="form-control"
name="password"  maxlength="40">
                </div>
                <input type="submit" name="submit"
class="btn btn-success btn-lg" value="Send data">




            </form>

        </div>
    </div>
</div>
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/j
query.min.js"></script>
        <script src="js/bootstrap.min.js"></script>
        </body>
</html>
```

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MySQL
RETRIEVE DATA FROM A DATABASE
APPLICATION: POPULATE AN HTML TABLE USING DATABASE DATA.
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```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible"
content="IE=edge">
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Retrieve data</title>
        <link href="css/bootstrap.min.css"
rel="stylesheet">
        <style>
            h1{
                color:purple;
            }
            h3{
                color:#42d5ce;
            }
            .containingDiv{
                border:1px solid #7c73f6;
                margin-top: 100px;
                border-radius: 15px;
            }
        </style>

    </head>
```

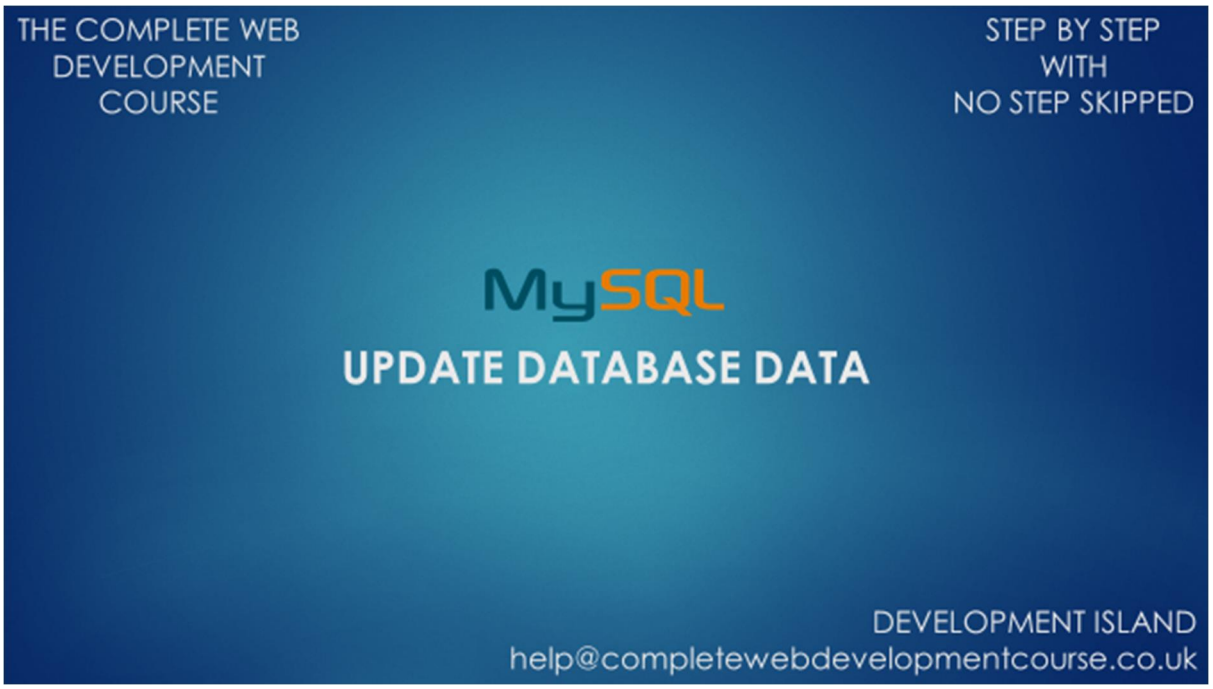
```
        <body>
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-offset-1 col-sm-10
containingDiv">
            <h1>Retrieve data from a table:</h1>
            <h3>Connect to database:</h3>
<?php
//mysqli_connect(host, username, password, dbname)
$link = @mysqli_connect("mysql11.000webhost.com",
"a7099072_user", "Hellodevelopers1", "a7099072_db") or
die("ERROR: Unable to connect: " .
mysqli_connect_error());

echo "<p>Connected successfully to the database.</p>";
?>
            <h3>Retrieve data from database:</h3>
<?php
$sql = "SELECT * FROM users";
//$sql = "SELECT * FROM users WHERE firstname = 'george'";
//$sql = "SELECT * FROM users ORDER BY lastname";
//$sql = "SELECT * FROM users ORDER BY lastname DESC";
if($result = mysqli_query($link, $sql)){
    print_r($result);
    if(mysqli_num_rows($result)>0){
        echo "<table class='table table-stripped table-
hover table-condensed table-bordered'>
                <tr>
                <th>ID</th>
                <th>firstname</th>
                <th>lastname</th>
                <th>email</th>
                <th>password</th>
                </tr>
        ";
//        $count = 0;
        while($row = mysqli_fetch_array($result,
MYSQLI_ASSOC)){
//            $count++;
//            echo "<p>Row number: $count</p>";
//            print_r($row);
            echo "<tr>";
```

```
                echo "<td>" . $row["ID"] . "</td>";
                echo "<td>" . $row["firstname"] . "</td>";
                echo "<td>" . $row["lastname"] . "</td>";
                echo "<td>" . $row["email"] . "</td>";
                echo "<td>" . $row["password"] . "</td>";
            echo "</tr>";

        }
        echo "</table>";
        //close the result set
        mysqli_free_result($result);
    }else{
        echo "<p>mySQL returned an empty result set.</p>";
    }
}else{
    echo "<p>Unable to excecute: $sql. " .
mysqli_error($link) ."</p>";
}
?>

        </div>
    </div>
</div>
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/j
query.min.js"></script>
        <script src="js/bootstrap.min.js"></script>
        </body>
</html>
```

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    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible"
content="IE=edge">
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Update data</title>
        <link href="css/bootstrap.min.css"
rel="stylesheet">
        <style>
            h1{
                color:purple;
            }
            h3{
                color:#42d5ce;
            }
            .containingDiv{
                border:1px solid #7c73f6;
                margin-top: 100px;
                border-radius: 15px;
            }
        </style>

    </head>
```

```
        <body>
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-offset-1 col-sm-10
containingDiv">
            <h1>Update data in a table:</h1>
            <h3>Connect to database:</h3>
<?php
//mysqli_connect(host, username, password, dbname)
$link = @mysqli_connect("mysql11.000webhost.com",
"a7099072_user", "Hellodevelopers1", "a7099072_db") or
die("ERROR: Unable to connect: " .
mysqli_connect_error());

echo "<p>Connected successfully to the database.</p>";
?>
            <h3>Update data:</h3>
<?php
$sql = "UPDATE users SET lastname='Wilson' WHERE
firstname='Peter' AND email='Taylor.ztest@gmail.com'";
if(mysqli_query($link,$sql)){
    echo "<p>Data was updated successfuly!</p>";
}else{
    echo "<p>ERROR: Unable to execute $sql.".
mysqli_error($link) ." </p>";
}
?>

        </div>
    </div>
</div>
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/j
query.min.js"></script>
        <script src="js/bootstrap.min.js"></script>
        </body>
</html>
```

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<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible"
content="IE=edge">
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Delete data</title>
        <link href="css/bootstrap.min.css"
rel="stylesheet">
        <style>
            h1{
                color:purple;
            }
            h3{
                color:#42d5ce;
            }
            .containingDiv{
                border:1px solid #7c73f6;
                margin-top: 100px;
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        </style>

    </head>
```

```
        <body>
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-offset-1 col-sm-10
containingDiv">
            <h1>Delete Data:</h1>
            <h3>Connect to database:</h3>
<?php
//mysqli_connect(host, username, password, dbname)
$link = @mysqli_connect("mysql11.000webhost.com",
"a7099072_user", "Hellodevelopers1", "a7099072_db") or
die("ERROR: Unable to connect: " .
mysqli_connect_error());

echo "<p>Connected successfully to the database.</p>";
?>
            <h3>Delete data:</h3>
<?php
$sql = "DELETE FROM users WHERE firstname='george'";
//$sql = "DROP users";
if(mysqli_query($link,$sql)){
    echo "<p>Data was deleted successfuly!</p>";
}else{
    echo "<p>ERROR: Unable to execute $sql.".
mysqli_error($link) ." </p>";
}

//close connection
mysqli_close($link);
//$link->close($link);
?>

        </div>
    </div>
</div>
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/j
query.min.js"></script>
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